

Title (en)
DEVICE FOR CHECKING BATCHES OF CIGARETTES

Publication
EP 0157087 B1 19890405 (DE)

Application
EP 85100560 A 19850119

Priority
DE 3407168 A 19840228

Abstract (en)
[origin: US4678901A] During the packaging of cigarettes, cigarette groups (10) assigned to a pack are checked to ensure that all the cigarettes are present. For non-contact monitoring, optical transmitters (22) and receivers (23) are arranged in a support (cantilever 21) located above the path of movement of the cigarette groups (10), in such a way that, when the cigarettes in the top layer (17) are present and properly formed, a check beam (26) from the transmitter (22) is received as a reflected beam (27) by the receiver (23).

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B65B 19/28

IPC 8 full level
A24C 5/34 (2006.01); **B65B 19/28** (2006.01); **B65B 19/30** (2006.01)

CPC (source: EP US)
B65B 19/28 (2013.01 - EP US); **Y10S 131/905** (2013.01 - EP US)

Cited by
EP1053942A1; EP0965523A1; CN103708060A; CN103395504A; EP0952082A3; EP1057727A1; EP0349823A1; US4955948A; US6308492B1; US6437317B1; US6226078B1; US6169600B1

Designated contracting state (EPC)
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EP 0157087 A1 19851009; EP 0157087 B1 19890405; BR 8500767 A 19851008; CA 1258307 A 19890808; DE 3407168 A1 19850829; DE 3407168 C2 19920702; DE 3569223 D1 19890511; JP H0659886 B2 19940810; JP S60184379 A 19850919; US 4678901 A 19870707

DOCDB simple family (application)
EP 85100560 A 19850119; BR 8500767 A 19850221; CA 472699 A 19850123; DE 3407168 A 19840228; DE 3569223 T 19850119; JP 1272485 A 19850128; US 69246985 A 19850118